

IN THE CLAIMS:

1. (Currently Amended) System ~~consisting of~~ comprising a gear pump (1), a filter (10) and a screw-type extruder (10), which consists of a screw (11) and a screw casing (12), for delivering elastomeric media, particularly caoutchouc, the screw-type extruder (10) being arranged in front of the gear pump (1) viewed in the delivery direction (6) of the pumping medium, ~~characterized in that~~ wherein the filter (20) is arranged behind the gear pump (1), and wherein a metal detector is arranged in front of the gear pump and in that a control unit to control the screw extruder and/or the gear pump in response to a signal received from the metal detector.

2. (Canceled).

3. (Currently Amended) System according to Claim 1, ~~characterized in that~~ wherein the screw projects into the casing of the gear pump.

4. (Currently Amended) System according to claim 1, ~~characterized in that~~ wherein the filter is arranged between the gear pump and the spraying head.

5. (Currently Amended) System according to Claim 1 ~~characterized in that~~ wherein the screw casing has at least one conical part, and the screw has, in the area of the conical part, at least one tapering, and in that, for the controlled feeding of energy into the pumping medium, the screw is axially displaceable in the screw casing.

6. (Currently Amended) System according to Claim 5, ~~characterized in that~~ wherein the tapering of the screw (11) as well as the conical part (15) are provided on the gear-pump-side end of the screw-type extruder (10).

7. (Currently Amended) System according to Claim 5, ~~characterized in that~~ wherein the tapering of the screw increases viewed in the delivery direction of the medium.

8. (Currently Amended) System according to Claim 5, ~~characterized in that~~ wherein the screw has a double-helix-type construction.

9. (Currently Amended) System according to Claim 5, ~~characterized in that~~ wherein a tangential plane on the screw in the area of the tapering encloses an angle of from 2 to 10°, ~~preferably 8°~~, with the center axis of the screw.

10. (Currently Amended) System according to Claim 5, ~~characterized in that~~ wherein the length of the screw is less than five times, ~~preferably three times~~, the diameter of the screw.

11. (Currently Amended) System according to Claim 5, ~~characterized in that~~ wherein the screw-type extruder has a cylindrical part in addition to the conical part.

12. (Currently Amended) System according to Claim 11, ~~characterized in that~~ wherein the ratio of the length of the conical part ~~(15)~~ to the length of the cylindrical part is between 1:2 to 1:5, ~~preferably approximately 1:4~~.

13. (Currently Amended) System according to Claim 5, ~~characterized in that~~ wherein the length of the cone is less than the diameter of the screw.

14. (Currently Amended) System according to claim 1, ~~characterized in that~~ wherein the screw and/or the screw casing each have one hollow space respectively with at least ~~to~~ two openings for admitting and discharging a temperature adjusting medium.

15. (Withdrawn) Use of the system according to Claim 1 for delivering elastomeric media, particularly caoutchouc.

16. (Currently Amended) Method of operating the system according to Claim [[2]] 1, ~~characterized in that~~, wherein when a metal piece is detected, the delivery of the pumping medium is interrupted in that the drives of the screw and of the gear pump are stopped.

17. (Currently Amended) Method of operating the system according to Claim [[2]] 1, ~~characterized in that~~ wherein a detection of a metal piece is indicated to an operator who intervenes in the transport process of the pumping medium for removing the metal piece without requiring an interruption of the production process.

18. (New) System comprising a gear pump, a filter and a screw extruder, which consists of a screw and a screw casing, for delivering elastomeric media, particularly caoutchouc, the screw extruder being arranged in front of the gear pump viewed in the delivery direction of the pumping medium, wherein the filter is arranged behind the gear pump, and wherein the screw casing has at least one conical part, and the screw has, in the area of the conical part, at least one tapering, and in that, for the controlled feeding of energy into the pumping medium, the screw is axially displaceable in the screw casing.

19. (New) System according to Claim 18, wherein the tapering of the screw as well as the conical part are provided on the gear-pump-side end of the screw extruder.

20. (New) System according to Claim 18, wherein the tapering of the screw increases viewed in the delivery direction of the medium.

21. (New) System according to Claim 18, wherein the screw has a double-helix construction.

22. (New) System according to Claim 18, wherein a tangential plane on the screw in the area of the tapering encloses an angle of from 2 to 10° with the center axis of the screw.

23. (New) System according to Claim 18, wherein the length of the screw is less than five times the diameter of the screw.

24. (New) System according to Claim 18, wherein the screw extruder has a cylindrical part in addition to the conical part.

25. (New) System according to Claim 24, wherein the ratio of the length of the conical part to the length of the cylindrical part is between 1:2 to 1:5.

26. (New) System according to Claim 18, wherein the length of the cone is less than the diameter of the screw.

27. (New) System according to claim 18, wherein the screw and/or the screw casing each have one hollow space respectively with at least two openings for admitting and discharging a temperature adjusting medium.